

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

KNUT MEYER ET. AL.

CASE NO.: BC1015 US DIV

APPLICATION NO.: UNKNOWN

CONFIRMATION NO.:

GROUP ART UNIT: UNKNOWN

EXAMINER: UNKNOWN

FILED: CONCURRENTLY HEREWITH

FOR: HIGH LEVEL PRODUCTION OF
P-HYDROXYBENZOIC ACID IN
GREEN PLANTS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08.

Benefit of the earlier filing date of U.S. Patent Application No. 09/855,341, filed May 15, 2001 is claimed under 35 U.S.C. 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,



LINDA AXAMETHY FLOYD
ATTORNEY FOR APPLICANTS

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Dated: 20 Nov. 2003

Enclosures

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	7
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Complete if Known

Application Number	Unknown
Filing Date	Concurrently Herewith
First Named Inventor	Knut Meyer Et. Al.
Art Unit	Unknown
Examiner Name	
Attorney Docket Number	BC 1015 US DIV

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
		JP 06078780	03-22-1994	Showa Denko K.K.		
		JP 05328981	12-14-1993	Kawasaki Steel Corp.		
		JP 05336980	12-21-1993	Kawasaki Steel Corp.		
		JP 05336979	12-21-1993	Kawasaki Steel Corp.		

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		WO 98/56920 A1	12-17-1998	DUPONT		
		EP 0189707 B1	08-25-1993	PLANT GENETIC SYS.		
		DE 44 23 022 C1	06-30-1994	LUTZ HEIDE		
		WO 96/00788 A1	01-11-1996	LUTZ HEIDE		

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NON PATENT LITERATURE DOCUMENTS

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	1	M. SIEBERT ET AL., FEBS LETT 307:347-350, 1992, CLONING OF THE GENES CODING FOR CHORISMATE PYRUVATE-LYASE AND 4-HYDROXYBENZOATE OCTAPRENYL TRANSFERASE FROM ESCHERICHIA COLI	<input type="checkbox"/>
	2	BRIAN P. NICHOLS ET AL., J. BACTERIOL. 174:5309-5316, 1992, CLONING AND SEQUENCING OF ESCHERICHIA COLI UBIC AND PURIFICATION OF CHORISMATE LYASE	<input type="checkbox"/>
	3	MARION SIEBERT ET AL., MICROBIOLOGY, 140:897-904, 1994, FORMATION OF 4-HYDROXYBENZOATE IN ESCHERICHIA COLI: CHARACTERIZATION OF THE UBIC GENE AND ITS ENCODED ENZYME CHORISMATE PYRUVATE-LYASE	<input type="checkbox"/>
	4	CHRISTOPHER T. WALSH ET AL., CHEM. REV. 90:1105-1129, 1990, MOLECULAR STUDIES ON ENZYMES IN CHORISMATE METABOLISM AND THE ENTEROBACTIN BIOSYNTHETIC PATHWAY	<input type="checkbox"/>
	5	JORG-PETER SCHNITZLER ET AL., PLANTA, 188:594-600, 1992, BIOSYNTHESIS OF P-HYDROXYBENZOIC ACID IN ELICITOR-TREATED CARROT CELL CULTURES	<input type="checkbox"/>
	6	JOHN LYDON ET AL., J. AGRIC. FOOD CHEM., VOL. 36:813-818, 1988, GLYPHOSATE INDUCTION OF ELEVATED LEVELS OF HYDROXYBENZOIC ACIDS IN HIGHER PLANTS	<input type="checkbox"/>

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	7	NORITSUGU TERASHIMA ET AL., PHYTOCHEMISTRY, VOL. 14:1991-1992, 1975, BIOSYNTHESIS OF P-HYDROXYBENZOIC ACID IN POPLAR LIGNIN	<input type="checkbox"/>
	8	RALF LOSCHER ET AL., PLANT PHYS., VOL. 106:271-279, 1994, BIOSYNTHESIS OF P-HYDROXYBENZOATE FROM P-COUMARATE AND P-COUMAROYL-COENZYME A IN CELL-FREE EXTRACTS OF LITHOSPERMUM ERYTHROHIZON CELL CULTURES	<input type="checkbox"/>
	9	MARION SIEBERT ET AL., PLANT PHYS., VOL. 112:811-819, 1996, GENETIC ENGINEERING OF PLANT SECONDARY METABOLISM	<input type="checkbox"/>
	10	SUSANNE SOMMER ET AL., PLANT CELL PHYS., VOL. 39(11):1240-1244, 1998, EXPRESSION OF BACTERIAL CHORISMATE PYRUVATE-LYASE IN TOBACCO: EVIDENCE FOR THE PRESENCE OF CHORISMATE IN THE PLANT CYTOSOL	<input type="checkbox"/>
	11	KAZUFUMI YAZAKI, BIOSCIENCE AND INDUSTRY, VOL. 56(9):621-622, 1998, SECONDARY METABOLIC ENGINEERING USED FOR PLANT MOLECULAR BREEDING FOR PATHOGEN AND INSECT RESISTANCE	<input type="checkbox"/>
	12	SHU-MING LI ET AL., PLANT CELL PHYS., VOL. 38(7):844-850, 1997, METABOLIZATION OF THE ARTIFICIAL SECONDARY METABOLITE 4-HYDROXYBENOZATE IN UBIC-TRANSFORMED TOBACCO	<input type="checkbox"/>

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	13	SUSANNE SOMMER ET AL., PLANT MOL. BIOL., VOL. 39:683-693, 1999, GENETIC ENGINEERING OF SHIKONIN BIOSYNTHESIS HAIRY ROOT CULTURES OF LITHOSPERMUM ERYTHRORHIZON TRANSFORMED WITH THE BACTERIAL UBIC GENE	<input type="checkbox"/>
	14	S. SOMMER ET AL., PLANT CELL REPORTS, VOL. 17:891-896, 1998, SPECIFIC INDUCTION OF SECONDARY PRODUCT FORMATION IN TRANSGENIC PLANT CELL CULTURES USING AN INDUCIBLE PROMOTER	<input type="checkbox"/>
	15	NAM-HAI CHUA ET AL., PNAS, VOL. 75(12):6110-6114, 1978, POST-TRANSLATIONAL TRANSPORT INTO INTACT CHLOROPLASTS OF A PRECURSOR TO THE SMALL SUBUNIT OF RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE	<input type="checkbox"/>
	16	PETER E. HIGHFIELD ET AL., NATURE, VOL. 271:420-424, 1978, SYNTHESIS AND TRANSPORT OF THE SMALL SUBUNIT OF CHLOROPLAST RIBULOSE BISPHOSPHATE CARBOXYLASE	<input type="checkbox"/>
	17	KENNETH CLINE ET AL., JOURN. OF BIOL. CHEM., VOL. 260(6):3691-3696, 1985, PRECURSORS TO TWO NUCLEAR-ENCODED CHLOROPLAST PROTEINS BIND TO THE OUTER ENVELOPE MEMBRANCE BEFORE BEING IMPORTED INTO CHLOROPLASTS	<input type="checkbox"/>
	18	ARTHUR GROSSMAN ET AL., NATURE, 285:625-628, 1980, ENERGY-DEPENDENT UPTAKE OF CYTOPLASMICALLY SYNTHESIZED POLYPEPTIDES BY CHLOROPLASTS	<input type="checkbox"/>

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	19	GUIDO VAN DEN BROECK ET AL., NATURE, VOL. 313:358-362, 1985, TARGETING OF A FOREIGN PROTEIN TO CHLOROPLASTS BY FUSION TO THE TRANSIT PEPTIDE FROM THE SMALL SUBUNIT OF RIBULOSE 1,5-BISPHOSPHATE CARBOXYLASE	<input type="checkbox"/>
	20	PETER H. SCHREIER ET AL., EMBO J., 4:25-32, 1985, THE USE OF NUCLEAR-ENCODED SEQUENCES TO DIRECT THE LIGHT-REGULATED SYNTHESIS AND TRANSPORT OF A FOREIGN PROTEIN INTO PLANT CHLOROPLASTS	<input type="checkbox"/>
	21	CATHERINE C. WASMANN ET AL., MOL. GEN. GENET., VOL. 205:446-453, 1986, THE IMPORTANCE OF THE TRANSIT PEPTIDE AND THE TRANSPORTED PROTEIN FOR PROTEIN IMPORT INTO CHLOROPLASTS	<input type="checkbox"/>
	22	THOMAS H. LUBBEN ET AL., THE PLANT CELL, VOL. 1:1223-1230, 1989, SEVERAL PROTEINS IMPORTED INTO CHLOROPLASTS FORM STABLE COMPLEXES WITH THE GROEL-RELATED CHLOROPLAST MOLECULAR CHAPERONE	<input type="checkbox"/>
	23	COLIN ROBINSON ET AL., EUR. J. BIOCHEM., VOL. 142:343-346, 1984, TRANSPORT OF PROTEINS INTO CHLOROPLASTS	<input type="checkbox"/>
	24	COLIN ROBINSON ET AL., EUR. J. BIOCHEM., VOL. 152:67-73, 1985, TRANSPORT OF PROTEINS INTO CHLOROPLASTS	<input type="checkbox"/>

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	25	CATHERINE C. WASMANN ET AL., JOURN. OF BIOL. CHEM., 263(2):617-619, 1988, COMPLETE PROCESSING OF A SMALL SUBUNIT OF RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/OXYGENASE FROM PEA REQUIRES THE AMINO ACID SEQUENCE IIE-THR-SER*	<input type="checkbox"/>
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